



RICK SNYDER
GOVERNOR

STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING



DAN WYANT
DIRECTOR

March 25, 2011

Dear Interested Party:

SUBJECT: Revised Part 201 Generic Cleanup Criteria and
Part 213 Risk-Based Screening Levels

Revisions have been made to the following bulleted items and published on the Department of Environmental Quality (DEQ) - Remediation Division's Internet homepage:

- Generic groundwater cleanup criteria and screening levels (R 299.5744, Table 1);
- Generic soil cleanup criteria and screening levels (R 299.5746 and R 299.5748, Tables 2 and 3, respectively);
- Footnotes for the generic cleanup criteria tables (R 299.5750); and
- Toxicological and chemical-physical properties values (R 299.5752, Table 4).

The criteria, screening levels, footnotes, and toxicological and chemical-physical properties values are presented in Attachment 1.

On February 17, 2011, under separate cover, the department published revisions to the Part 201 and Part 213 Groundwater Surface Water Interface (GSI) criteria and GSI Protection (GSIP) criteria for soil and their respective footnotes (R 299.5750) that became effective December 14, 2010, pursuant to the Part 201 Amendments (Amendments). These GSI and GSIP criteria revisions are also included in the present criteria table release. Per the Amendments, the generic GSI criteria are the water quality standards for surface water developed by the department pursuant to Part 31 (Sec. 20120e). As a result, some of the GSI and GSIP criteria had changed. These revised criteria replaced the generic GSI and GSIP criteria previously published in the 2006 DEQ - Remediation and Redevelopment Division (RRD) Operational Memorandum No. 1. The GSI and GSIP criteria will be revised periodically as the water quality standards are updated. No other numerical criteria within the generic cleanup criteria and screening level tables have been changed.

For those organic hazardous substances that have revised GSI criteria pursuant to the Amendments, the GSI Soil Water Partitioning (SWP) values are based on the organic SWP equation presented in the technical support document for the Groundwater Protection Criteria (RRD Operational Memorandum No. 1, Attachment 9). For those organic hazardous substances that have not been revised pursuant to the Amendments, the equation that the department used to generate the GSI SWP values contained a minor formatting error that resulted in slightly different organic SWP values. Since the GSIP criteria were promulgated into rule in December 2002, the department is not able to correct this pathway error until a Part 31 water quality standard has been updated for that hazardous substance or until the rules are repromulgated.

In addition to the updated GSI and GSIP criteria, the industrial and commercial land use categories have been replaced, in name, by the nonresidential land use category pursuant to the Amendments. The criteria that were formerly presented as the industrial criteria are now the nonresidential criteria, pursuant to the Amendments. This changed the land use designations of the cleanup criteria presented in the groundwater and soil tables to residential and nonresidential and resulted in the elimination of the commercial III and IV subcategories of the soil direct contact criteria contained in R 299.5748, Table 3.

Also at this time, and unrelated to the Amendments, inhalation-based cleanup criteria have been developed for some hazardous substances previously footnoted with an "ID" (i.e., insufficient data). Inhalation-based toxicity endpoints were developed pursuant to Part 55, Air Pollution Control, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, and the rules promulgated under that part, and, where all necessary chemical-specific data were available, inhalation-based cleanup criteria were developed (R 299.5706a(11)). These criteria are effective March 25, 2011, and replace the "ID" footnote where previously listed in the inhalation-based criteria columns of the tables and are summarized in Attachment 2.

For questions regarding the updated criteria tables please contact:

Ms. Christine Flaga, Chief
Toxicology Unit
Remediation Division
Department of Environmental Quality
E-mail: flagac@michigan.gov
Phone: 517-373-0160

or

Eric Wildfang, Ph.D., Toxicologist
Toxicology Unit
Remediation Division
Department of Environmental Quality
E-mail: wildfange@michigan.gov
Phone: 517-335-1558

Attachments